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Optical-controlled and Voice-Controlled Optical Fiber Skipping-rope

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BACKGROUND OF THE INVENTION

1 · Field of the Invention

The present invention is related to an optical-controlled and
10 voice-controlled optical fiber skipping-rope; in particular, there is
equipped with a voice-controlled constructional body and an
optical-controlled constructional body, respectively, on the two handles of
the optical fiber skipping-rope, so that people can grasp the optical fiber
15 skipping-rope having optical and music control effect, that enables the broad
application of the skipping-rope product, especially to be used at night.

2 · Description of the Prior Art

In a conventional skipping-rope structure, the two handles are usually
20 made of plastic or wooden, and the connection part between the two handles
is mainly made of fiber rope or soft plastic tube. Therefore, people feel dull
when using this kind of skipping-rope. Besides, people may concern the
security of using the skipping-rope at night; especially, usually the players
of skipping-rope are children who are careless about the security.

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SUMMARY OF THE INVENTION

An object of present invention is to provide an optical-controlled and voice-controlled optical fiber skipping-rope, it is the improved design for the handle and rope of the skipping-rope, which is reflected by one handle with the music-controlling impressing construction body and another handle with the optical-controlling impressing construction body; these two constructional bodies are connected by a luminescence constructional body. Another object of the present invention is to provide a skipping-rope product having the optical-controllability, security and music-controllability and amusement.

BRIEF DESCRIPTION OF THE DRAWINGS

The other objects and features of the present invention can be more fully understood by referring to the following description of preferred embodiments and accompanying drawings, in which:

Fig.1 is a voice-controlled constructional body of the present invention;

Fig.2 is a sectional view of Fig.1 of the present invention;

Fig.3 is an optical-controlled constructional body of the present invention;

Fig.4 is a sectional view of Fig.3 of the present invention;

Fig.5 is an embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention is related to an optical-controlled and voice-controlled optical fiber skipping-rope, referring to Fig. 5, which

mainly includes a voice-controlled constructional body 1, an optical-controlled constructional body 2 and a luminescence constructional body 3. Referring to Figs.1 and 2, the voice-controlled constructional body 1 includes an upper cover 11 and an under cover 12, both having an oval shape.

5. The upper cover 11 is equipped in its center with a press hole 111, the side face is equipped with multiple voice hole 112, the under cover 12 is equipped with anterior and posterior locking holes 121; while the connection part of upper cover 11 and under cover 12 is equipped with a button 15, an integrated circuit board 16, a fixing sleeve head 17, an illuminant 18 and double cells 14. A fixed seat 151 of button 15 is placed on the integrated circuit board 16; while the integrated circuit board 16 is equipped thereon with a buzzer 161 and a music chip 162. Fixing foot 171 of the fixing sleeve head 17 are placed on the integrated circuit board 16; while the fixing sleeve head 17 covers the illuminant 18. A neck 113 formed by the front end of the closing of upper cover 11 and under cover 12 covers a tapered sleeve head 13 connecting with the luminescence constructional body 3.

- Referring to Figs. 3 and 4, the optical-controlled constructional body 2 includes an upper cover 21 and an under cover 22, both having an oval shape, wherein the upper cover 21 is equipped in its center with a press hole 211, the under cover 22 is equipped with anterior and posterior locking holes 221. The connection part of upper cover 21 and under cover 22 is equipped with a button 25, an integrated circuit board 26, a fixing sleeve head 27, an illuminant 28 and double cells 24. A fixed seat 251 of button 25 is placed on the integrated circuit board 26; while the integrated circuit board 26 is equipped thereon with an optical-controlled chip 261. Fixing foot 271 of fixing sleeve head 27 are is placed on the integrated circuit board 26; while

the fixing sleeve head 27 covers the illuminant 28. A neck 212 formed by the front end of the closing of upper cover 21 and lower cover 22 covers a tapered sleeve head 23 connecting with the luminescence constructional body 3.

5 The present invention is related to an optical-controlled and voice-controlled optical fiber skipping-rope. Referring to Fig. 5, it mainly features a music handle, i.e., voice-controlled structure 1; an optical-controlled handle, i.e., the optical-controlled structure 2 and a luminescence constructional body 3. When pressing buttons 15 and 25, the
10 optical-controlled and voice-controlled optical fiber skipping-rope of the present invention may obtain the features of safety warning, amusement and esthetics.

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